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| 1. REPORT DATE (DD-MM-YYYY)<br>Sep 2010   |             | 2. REPORT TYPE |                            | 3. DATES COVERED (From - To)                             |   |
| 4. TITLE AND SUBTITLE<br>Strategies for Optimization and Automated Design of Gas Turbine Engines<br>(Les Stratégies pour l'optimisation et la conception automatique de turbines à gaz)   |             |                |                            | 5a. CONTRACT NUMBER                                      |   |
|   |             |                |                            | 5b. GRANT NUMBER   |   |
|   |             |                |                            | 5c. PROGRAM ELEMENT NUMBER                               |   |
| 6. AUTHOR(S)  |             |                |                            | 5d. PROJECT NUMBER                                       |   |
|   |             |                |                            | 5e. TASK NUMBER  |   |
|   |             |                |                            | 5f. WORK UNIT NUMBER                                     |   |
| 7. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES)<br>Research and Technology Organisation (NATO)<br>BP 25, F-92201 Neuilly-sur-Seine Cedex, France   |             |                |                            | 8. PERFORMING ORGANIZATION REPORT NUMBER                 |   |
| 9. SPONSORING / MONITORING AGENCY NAME(S) AND ADDRESS(ES)   |             |                |                            | 10. SPONSOR/MONITOR'S ACRONYM(S)                         |   |
|   |             |                |                            | 11. SPONSOR/MONITOR'S REPORT NUMBER(S)<br>RTO-EN-AVT-167 |   |
| 12. DISTRIBUTION / AVAILABILITY STATEMENT<br>DISTRIBUTION STATEMENT A. Approved for public release; distribution is unlimited.  |             |                |                            |  |   |
| 13. SUPPLEMENTARY NOTES<br>Supporting documents are attached to the report as separate files (MS Word, MS PowerPoint, PDF, HTM, etc.)   |             |                |                            |  |   |
| 14. ABSTRACT<br>This Lecture Series outlined practical approaches to the formulation of automated gas turbine engines design tasks. The identified need being to teach the methodology and the processes and NOT the tools. The Lecture Series defined terminology and present optimization techniques and examples of automated workflow processes. Practical examples of part, component, or system level designs was presented for advanced vehicle propulsion and power systems. Key technical and human barriers to widespread acceptance and implementation of automated design approaches was also identified as part of this effort to guide future R&D programmes.   |             |                |                            |  |   |
| 15. SUBJECT TERMS   |             |                |                            |  |   |
| 16. SECURITY CLASSIFICATION OF:   |             |                | 17. LIMITATION OF ABSTRACT | 18. NUMBER OF PAGES                                      | 19a. NAME OF RESPONSIBLE PERSON           |
| a. REPORT   | b. ABSTRACT | c. THIS PAGE   |                            |  | 19b. TELEPHONE NUMBER (include area code) |
| u   | u           | u              | SAR                        | 3  |   |



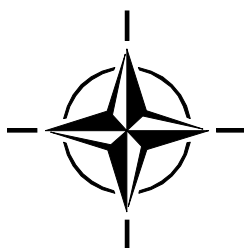
RTO EDUCATIONAL NOTES

EN-AVT-167

# **Strategies for Optimization and Automated Design of Gas Turbine Engines**

(Les Stratégies pour l'optimisation et la conception automatique de turbines à gaz)

The material in this publication was assembled to support a Lecture Series under the sponsorship of the Applied Vehicle Technology Panel (AVT) presented on 9-10 September 2010 in Berlin, Germany.



Published September 2010

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RTO is the single focus in NATO for Defence Research and Technology activities. Its mission is to conduct and promote co-operative research and information exchange. The objective is to support the development and effective use of national defence research and technology and to meet the military needs of the Alliance, to maintain a technological lead, and to provide advice to NATO and national decision makers. The RTO performs its mission with the support of an extensive network of national experts. It also ensures effective co-ordination with other NATO bodies involved in R&T activities.

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- NMSG NATO Modelling and Simulation Group
- SAS System Analysis and Studies Panel
- SCI Systems Concepts and Integration Panel
- SET Sensors and Electronics Technology Panel

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Published September 2010

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ISBN 978-92-837-0124-8

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